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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO			
10/612,369 07/02/2003		Kenneth J. Hicks	RHWH-0106	3673			
20558	7590 01/09/2004			EXAM	EXAMINER		
	ER & SMITH I I CENTRAL EX	WILSON, GREGORY A					
SUITE 230	CEIVITE IE EX	111255 11711		ART UNIT	PAPER NUMBER		
PLANO, T	X 75074		3749				

DATE MAILED: 01/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)	<u></u>				
			69	HICKS ET AL.					
	Office Action Summary	Examine	r	Art Unit					
		Gregory A	۱. Wilson	3749					
Period fo	The MAILING DATE of this communicat or Reply	ion appears on th	e cover sheet with the c	orrespondence address	S				
THE I External after If the If NC Failu Any I	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA' asions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) da period for reply is specified above, the maximum statutor re to reply within the set or extended period for reply will, eply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. 'CFR 1.136(a). In no evation. ys, a reply within the staty period will apply and w	rent, however, may a reply be tim tutory minimum of thirty (30) days vill expire SIX (6) MONTHS from to blication to become ABANDONED	rely filed s will be considered timely. the mailing date of this commun O (35 U.S.C. § 133).	nication.				
	Responsive to communication(s) filed o	n <i>02 Julv 200</i> 3.							
	·	This action is n	on-final.						
3)									
Dispositi	on of Claims								
5)□ 6)⊠ 7)⊠	 Claim(s) 1-29 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-8,10-22,26 and 29 is/are rejected. Claim(s) 23-25,27 and 28 is/are objected to. Claim(s) are subject to restriction and/or election requirement. 								
	on Papers								
10)	The specification is objected to by the ExThe drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to by	accepted or b) to the drawing(s) to correction is required.	be held in abeyance. See red if the drawing(s) is obj	e37 CFR 1.85(a). ected to. See 37 CFR 1.					
Priority under 35 U.S.C. §§ 119 and 120									
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 									
2) D Notic	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9 nation Disclosure Statement(s) (PTO-1449) Paper			(PTO-413) Paper No(s) atent Application (PTO-152)					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8, 10-22, 26, and 29 rejected under 35 U.S.C. 103(a) as being unpatentable over Murphy et al (6,164,333). Murphy et al discloses a convection heat trap for a water heater having a tank and heater for heating water which includes heat trap for the water heater, cold water or hot water outlet where the heat trap includes a tubular body (42) extending along an axis, a resilient flapper structure (36) carried by the body and having portions transversely extending across the interior of the body (SEE Figure 1 & from a hinged location (SEE Figure 6), the flap is axially deflectable relative to the tubular body and defines a circumferential gap with the interior side surface of the tubular body; the tubular body has an outwardly projecting end flange portion (28) integrally formed with the tubular body, a slot (34) extending radially inwardly through a side wall portion, a generally tubular exterior resilient seal (38) extending across the body wherein the flapper extends through the slot, and a dip tube (46) is received in the tubular body (SEE Figure 1). Murphy et al teaches the use of a singular flapper structure and does not specifically recite multiple flapper structures axially offset from one another. It would have been an obvious matter of design choice to modify convection heat trap of Murphy et al by having multiple flapper structures axially offset

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from one another, since it has been held that a mere duplication of the essential working parts of a device involves only routine skill in the art and the applicant has not disclosed that having these multiple flappers solves any stated problem or is for any particular purpose and it appears that convection heat trap would perform equally well with one or more flapper structures. In regard to claims 4-6 and 18-20, **Murphy et al** furthermore does not disclose that the end flange portion has a noncircular rotational driving structure formed on an outer side thereof. To provide a hexagonal, square, or rectangular driving structure for the purpose of supporting a tool to assemble/disassemble the convection heat trap would have been an obvious matter of design choice since it has been held that to make a provision of adjustability (in this case assembling or disassembling), where needed involves only routine skill in the art.

Allowable Subject Matter

Claims 9, 23-25, 27, and 28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory A. Wilson whose telephone number is (703) 308-1239. The examiner can normally be reached on 7 am - 4:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ira Lazarus can be reached on (703)308-1935. The fax phone number for the organization where this application or proceeding is assigned is (703)308-7764.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0861.

Gaw A. Zulson

January 7, 2004